

## **Contents**

Abstracted/Indexed in/Cited in: API Abstracts; Chemical Engineering and Biotechnology Abstracts; Catalysts & Catalysis; Chem Inform; Chemical Abstracts; Current Contents: Engineering; Current Contents: Engineering Index; Current Contents: Physical, Chemical & Earth Sciences; Engineering, Technology & Applied Sciences; Metals Abstracts; Research Alert; SCISEARCH; Science Citation Index; Theoretical Chemical Engineering Abstracts. Also covered in the abstract and citation database Scopus®. Full text available on ScienceDirect®

Highly efficient hydrogen production and formaldehyde degradation by Cu <sub>2</sub> O microcrystals H. Gao, J. Zhang, R. Wang and M. Wang (China)	1
Supporting of pristine TiO <sub>2</sub> with noble metals to enhance the oxidation and mineralization of paracetamol by sonolysis and sonophotolysis A. Ziylan-Yavas, Y. Mizukoshi, Y. Maeda and N.H. Ince (Turkey, Japan)	7
Structural modification of LaCoO <sub>3</sub> perovskite for oxidation reactions: The synergistic effect of Ca <sup>2+</sup> and Mg <sup>2+</sup> co-substitution on phase formation and catalytic performance  J. Zhang, D. Tan, Q. Meng, X. Weng and Z. Wu (PR China)	18
Conjugated polyene-modified $Bi_2MO_6$ (M = Mo or W) for enhancing visible light photocatalytic activity H. Li, W. Hou, X. Tao and N. Du (PR China)	27
Endowing single-electron-trapped oxygen vacancy self-modified titanium dioxide with visible-light photocatalytic activity by grafting Fe(III) nanocluster	
H. Li, F. Ren, J. Liu, Q. Wang, Q. Li, J. Yang and Y. Wang (China)	37
Microwave-assisted synthesis of Ag-doped MOFs-like organotitanium polymer with high activity in visible-light driven photocatalytic NO oxidization W. Zhu, P. Liu, S. Xiao, W. Wang, D. Zhang and H. Li (PR China)	46
Probing $CO_2$ reaction mechanisms and effects on the $SrNb_{0.1}Co_{0.9-x}Fe_xO_{3-\delta}$ cathodes for solid oxide fuel cells Y. Zhu, J. Sunarso, W. Zhou and Z. Shao (People's Republic of China, Canada)	52
Structure–reactivity relationships of Ni–NiO core–shell co-catalysts on Ta <sub>2</sub> O <sub>5</sub> for solar hydrogen production Q. Liu, L. Zhang and P.A. Crozier (USA)	58
Post plasma-catalysis for total oxidation of trichloroethylene over Ce-Mn based oxides synthesized by a modified "redox-precipitation route" M.T.Nguyen Dinh, JM. Giraudon, A.M. Vandenbroucke, R. Morent, N. De Geyter and JF. Lamonier (France, Belgium)	65
A new magnetic nano zero-valent iron encapsulated in carbon spheres for oxidative degradation of phenol Y. Wang, H. Sun, X. Duan, H.M. Ang, M.O. Tadé and S. Wang (Australia)	73
Importance of electrode hot-pressing conditions for the catalyst performance of proton exchange membrane fuel cells S.M. Andersen, R. Dhiman, M.J. Larsen and E. Skou (Denmark)	82
Controllable synthesis of highly active BiOCI hierarchical microsphere self-assembled by nanosheets with tunable thickness L. Ding, R. Wei, H. Chen, J. Hu and J. Li (PR China)	91
Enhanced visible light photocatalytic performance of a novel heterostructured Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> /Bi <sub>24</sub> O <sub>31</sub> Br <sub>10</sub> /Bi <sub>2</sub> SiO <sub>5</sub> photocatalyst D. Liu, W. Yao, J. Wang, Y. Liu, M. Zhang and Y. Zhu (PR China)	100
Esterification of palmitic acid with methanol over template-assisted mesoporous sulfated zirconia solid acid catalyst K. Saravanan, B. Tyagi, R.S. Shukla and H.C. Bajaj (India)	108
Bi-functional hydrotalcite-derived NiO-CaO-Al <sub>2</sub> O <sub>3</sub> catalysts for steam reforming of biomass and/or tar model compound at low steam-to-carbon conditions J. Ashok, Y. Kathiraser, M.L. Ang and S. Kawi (Republic of Singapore)	116
Low temperature H <sub>2</sub> production from ammonia using ruthenium-based catalysts: Synergetic effect of promoter and support A.K. Hill and L. Torrente-Murciano (UK)	129

## (Contents continued on bm I)

## **ScienceDirect**

Full text of this journal is available, on-line from ScienceDirect. Visit www.sciencedirect.com



0926-3373 (201508) 172/173; 1-